

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

TAE-SUNG KIM

Serial No.: *to be assigned*

Examiner: *to be assigned*

Filed: 29 January 2004

Art Unit: *to be assigned*

For: NOVEL CONDUCTIVE ELEMENTS FOR THIN FILM TRANSISTORS USED IN
A FLAT PANEL DISPLAY

INFORMATION DISCLOSURE STATEMENT

Mail Stop : PATENT APPLICATION

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§1.56, 1.97, and 1.98, applicant cites, provides copies and briefly discusses the following document:

U.S. Patent References

	<u>Patent No.</u>	<u>Inventor(s)</u>	<u>Issued Date</u>
1.	6,255,706	Watanabe et al.	7/3/2001
2.	5,607,776	Mueller et al.	3/4/1997
3.	6,028,003	Frisa et al.	2/22/2000
4.	5,893,752	Zhang et al.	4/13/1999
5.	6,414,738	Fujikawa	7/2/2002

U.S. Patent application

	<u>Publication No.</u>	<u>Inventor(s)</u>	<u>Published Date</u>
1.	2002/0142605	Kim	10/3/2002
2.	2002/0085157	Tanaka et al.	7/4/2002

Japanese Patent references

	<u>Publication No.</u>	<u>Inventor(s)</u>	<u>Published Date</u>
1.	07-58110	Yamaha et al.	3/3/1995
2.	07-120789	Abu et al.	12/5/1995
3.	2000-081632	Shimada et al.	3/21/2000
4.	2002-328389	Ishida et al.	11/15/2002

Discussion

U.S. Patent No. 6255706 to Watanabe et al. discloses a thin-film transistor and method of manufacturing the same.

U.S. Patent No. 5607776 to Mueller et al. pertains to in-site cleaning of TI.

U.S. Patent No. 6028003 to Frisa pertains to a method of forming an interconnect structure.

U.S. Patent No. 5893752 to Zhang et al. pertains to a process for forming a semiconductor device.

U.S. Patent No. 6414738 to Fujikawa pertains to an interconnect structure in an LCD display.

U.S. Patent Application Publication No. 2002/142605 to Kim discloses a method of forming a metal line.

U.S. Patent Application Laid-Open Publication No. 2002/0085157 to Tanaka *et al.* discloses TFT conductive elements made of Al.

Japanese Patent Publication No. 7-58110 to Yamaha *et al.* discloses a technique to prevent

the Al hillocks.

Japanese Patent Publication No. 7-120789 to Abu *et al.* discloses a multi-level conductive structure applicable to the scan and signal lines of the LCD device.


Japanese Patent Publication No. 2000-81632 to Shimada *et al.* discloses an inexpensive liquid crystal display device.

Japanese Patent Publication No. 2002-328389 to Ishida *et al.* discloses a novel design for a liquid crystal display device.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relative arts.

No fee is incurred by filing Information Disclosure Statement.

Respectfully submitted,


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INFORMATION DISCLOSURE STATEMENT PTO-1449 (PAGE 1 OF 1)	Serial No. : <i>to be assigned</i>	DOCKET NO.: P57001
	APPLICANT : TAE-SUNG KIM	
	FILING DATE: 29 January 2004	GROUP : <i>to be assigned</i>

U.S. PATENT DOCUMENTS						
EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,255,706	7/01	Watanabe et al.			
	5,607,776	3/97	Mueller et al.			
	6,028,003	2/00	Frisa et al.			
	5,893,752	4/99	Zhang et al.			
	6,414,738	7/02	Fujikawa			
	2002/0142605	10/02	Kim			
	2002/0085157	7/02	Tanaka et al.			

FOREIGN PATENT DOCUMENTS						TRANSLATION	
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	07-58110	3/95	Japan			X	
	07-120789	12/95	Japan			X	
	2000-081632	3/00	Japan			X	
	2002-328389	11/02	Japan			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)	

EXAMINER:	DATE CONSIDERED:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	